FIGURE 1
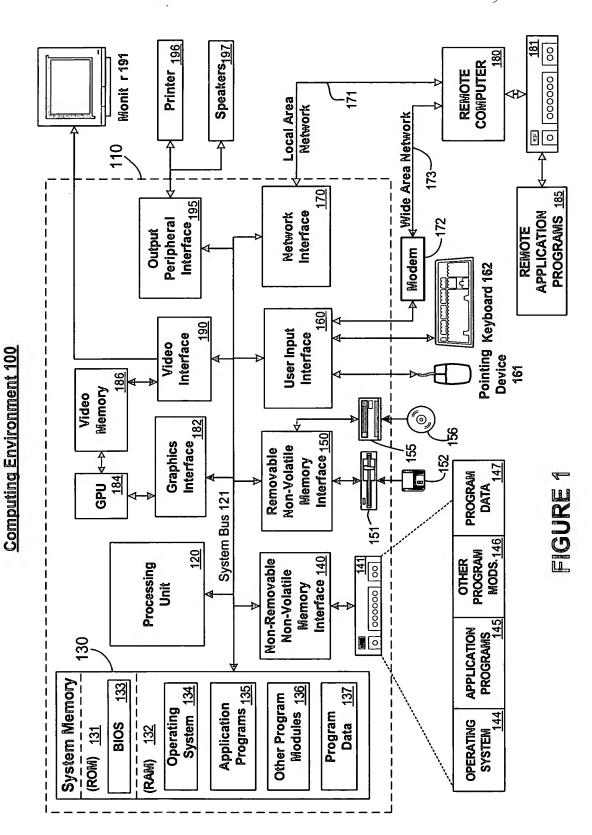
Docket No.: MSFT-2949/307005.01
App No.: Not yet assigned.   Filed: Herewith
Title: SQL Server Debugging
Inventors: Azeemullah Khan, Daniel Hunter Winn, and Mason Bendixen
Attorney: Michael P. Dunnam   Phone: (215) 568-3100
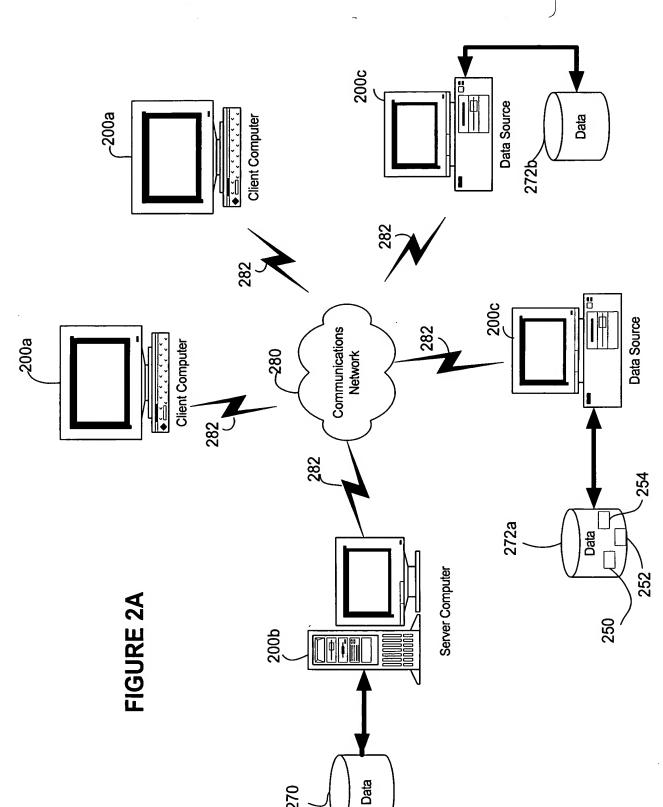Sheet 2 of 6

FIGURE 2A

Docket No.: MSFT-2949/307005.01
App No.: Not yet assigned.   Filed: Herewith
Title: SQL Server Debugging
Inventors: Azeemullah Khan, Daniel Hunter Winn, and Mason Bendixen
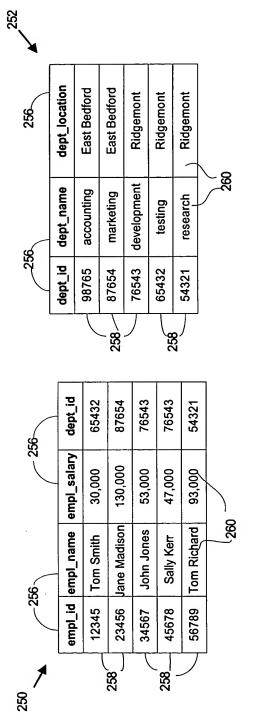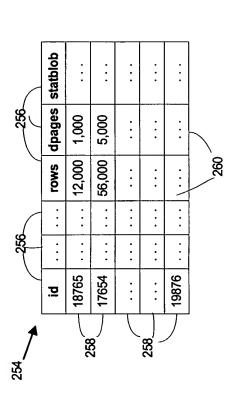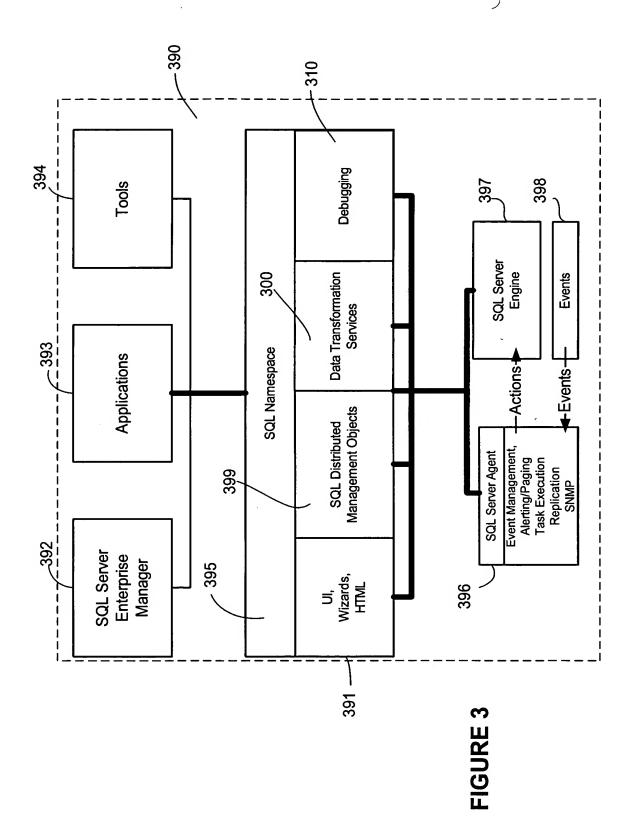Attorney: Michael P. Dunnam   Phone: (215) 568-3100
Sheet 3 of 6

252

256   256

dept_id	dept_name	dept_location
98765	accounting	East Bedford
87654	marketing	East Bedford
76543	development	Ridgemont
65432	testing	Ridgemont
54321	research	Ridgemont

256

258   258   260

250

256   256   256

empl_id	empl_name	empl_salary	dept_id
12345	Tom Smith	30,000	65432
23456	Jane Madison	130,000	87654
34567	John Jones	53,000	76543
45678	Sally Kerr	47,000	76543
56789	Tom Richard	93,000	54321

258   258   260

254

256   256   256

id		rows	dpages	statblob
18765	...	...	12,000	1,000	...
17654	...	...	56,000	5,000	...
...	...	...	...	...	...
...	...	...	...	...	...
19876	...	...	...	...	...

258   258   260

FIGURE 2B

390

310

394 Tools

393 Applications

392 SQL Server Enterprise Manager

300 SQL Namespace

310 Debugging

Data Transformation Services

399 SQL Distributed Management Objects

395 UI, Wizards, HTML

391

397 SQL Server Engine

398 Events

396 SQL Server Agent

Event Management, Alerting/Paging Task Execution Replication SNMP

Actions

Events

FIGURE 3

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Title: SQL Server Debugging
Inventors: Azeemullah Khan, Daniel Hunter Winn, and Mason Bendixen
Attorney: Michael P. Dunnam   Phone: (215) 568-3100
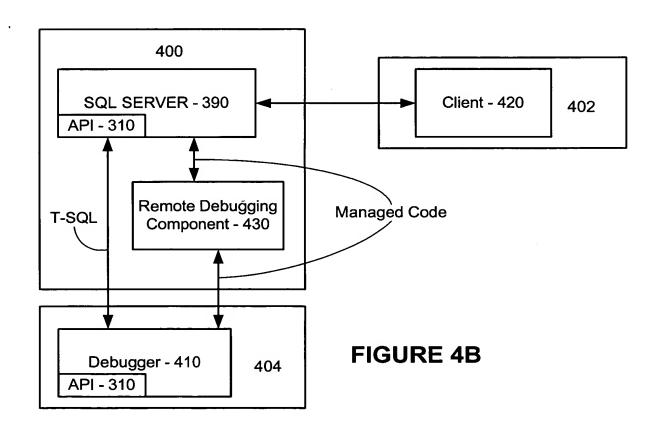Sheet 5 of 6

400

SQL SERVER - 390

API - 310

Client - 420   **402**

T-SQL,
Managed Code

Debugger - 410

API - 310

FIGURE 4A

400

SQL SERVER - 390

API - 310

Client - 420   **402**

T-SQL

Remote Debugging
Component - 430

Managed Code

Debugger - 410   **404**

API - 310

FIGURE 4B

500

Call Procedure - 501

Receive a COM Interface Pointer - 503

Call Register Method - 505

Detect Client Connection - 507

Stop Execution of Connection - 509

Call "OnMatch" Method on Debugger Side - 511

Commence Debugging - 513

FIGURE 5